

Test Report

No.: ETR24301408M01

Date: 20-Mar-2024

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ERIS TECHNOLOGY CORPORATION

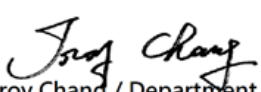
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The following sample(s) was/were submitted and identified by the applicant as:

Sample Name : SEMICONDUCTOR DEVICE (NON GREEN COMPOUND)
 Style/Item No. : DO-201
 Other Info. : SMA、SMB、SMC、SOD-123、SOD-123F、SOD-123L、SOD-123FL、SOD-123G、SOD-123M、SOD-123S、SOD-123ST、SMAD、SAME、SMAF、SMBF、EBS、TO-277、ITO-220AB、ITO-220AC、TO-220AB、TO-220AC、D2PAK(TO-263)、DPAK(TO-252)、IPAK(TO-251)、I2PAK(TO-262)、TO-247、TO-3P、DO-41、DO-15、DO-201、DO-201AD、DO-27、R-1、R-6、R-7、DO-35、MBS、MBSG、DF、DB、DFS、DBS、KBL、WOB、WOBM、RS-1、RS-2、KBP、GBP、TBP、2GBJ、BR3、KBU、GBU-C、GBU、TBL、TBU、RS-5、MP6、4GBJ、BR6、GBJ、KBJ、ABS、D3K、DBM、MBF、MBM、GBPC、KBPC、DBF、GBL、ABH、ABS、DO-218、PPAK5X6 SERIES、MB SERIES、MDI、DIP、TBS、SDIP、KBPM、WOM、LPAK8080、PowerDI8080-5、TOLLA-8

Sample Receiving Date : 07-Mar-2024
 Testing Period : 07-Mar-2024 to 14-Mar-2024

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
 (2) Please refer to next pages for the other item(s).
Test Results : Please refer to following pages.
Conclusion : (1) Based on the performed tests on submitted sample(s) and the declaration from the applicant, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU with the exemption of Annex III 7(a) and 7(c)-I [No.1].


 Troy Chang / Department Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei



PIN CODE: BB7DF50E

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Test Part Description

- No.1 : BLACK BODY
No.2 : PLATING LAYER OF SILVER COLORED METAL PIN
No.3 : BASE MATERIAL OF SILVER COLORED METAL PIN
No.4 : SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER)

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.1	No.2	No.3	No.4	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	---	100
Lead (Pb)		mg/kg	2	5790	---	---	---	(*E)
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	---	1000
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	---	---	---	1000
Cadmium (Cd)	IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	---	---	100
Lead (Pb)		mg/kg	2	---	22.7	---	---	1000
Mercury (Hg)	IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	---	---	1000
Hexavalent Chromium Cr(VI) (#2)	With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.	µg/cm ²	0.1	---	n.d.	n.d.	---	-

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Test Item(s)	Method	Unit	MDL	Result				Limit
				No.1	No.2	No.3	No.4	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	---	---	n.d.	---	100
Lead (Pb)		mg/kg	2	---	---	n.d.	---	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	---	---	n.d.	---	1000
Monobromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	---	---	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	---	---	n.d.	-
Sum of PBBs		mg/kg	-	n.d.	---	---	n.d.	1000
Monobromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	---	---	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	---	---	n.d.	1000

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Test Item(s)	Method	Unit	MDL	Result				Limit
				No.1	No.2	No.3	No.4	
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	---	---	n.d.	1000
Dibutyl phthalate (DBP)		mg/kg	50	n.d.	---	---	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.	---	---	n.d.	1000
Diisobutyl phthalate (DIBP)		mg/kg	50	n.d.	---	---	n.d.	1000
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	n.d.	---	---	n.d.	-
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	---	---	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)		mg/kg	50	97.2	---	---	n.d.	-
Bromine (Br) (CAS No.: 10097-32-2)		mg/kg	50	2800	---	---	n.d.	-
Iodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	---	---	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)		mg/kg	2	3000	---	---	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	---	---	n.d.	-
PFOA and its salts (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	---	---	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	$\mu\text{g}/\text{m}^2$	0.5	---	n.d.	---	---	-
PFOA and its salts (CAS No.: 335-67-1 and its salts)		$\mu\text{g}/\text{m}^2$	0.5	---	n.d.	---	---	-

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Note :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. "---" = Not Conducted
6. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 $\mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.
7. Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.
8. This is the additional test report of ETR24301408.
9. (*E): By client's claim, it is on the RoHS exemption list.

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PFAS Remark :

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	Perfluorooctane sulfonates (PFOS)	1763-23-1
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
	N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6

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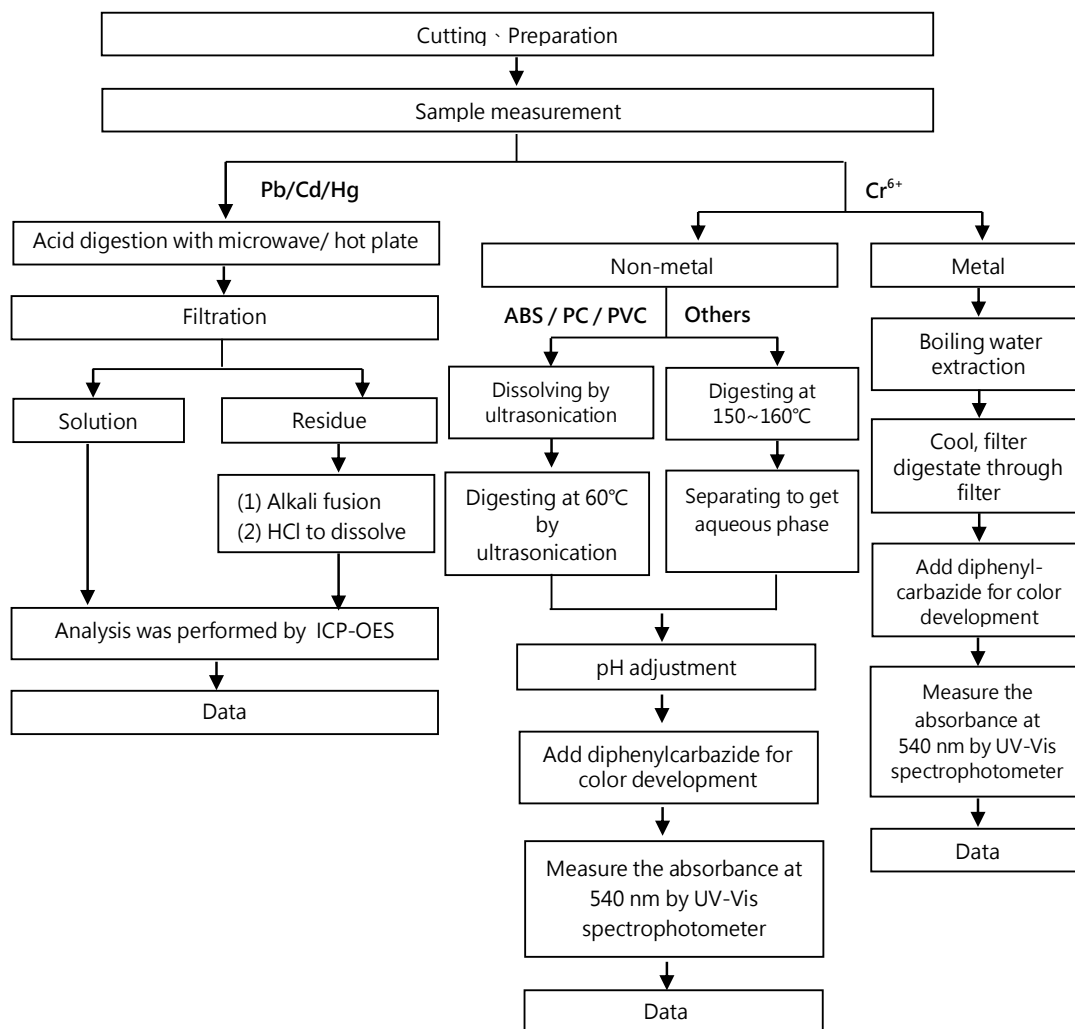
Group Name	Substance Name	CAS No.
PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1
	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanoate (PFOA-Ag)	335-93-3
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5

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Analytical flow chart of heavy metal

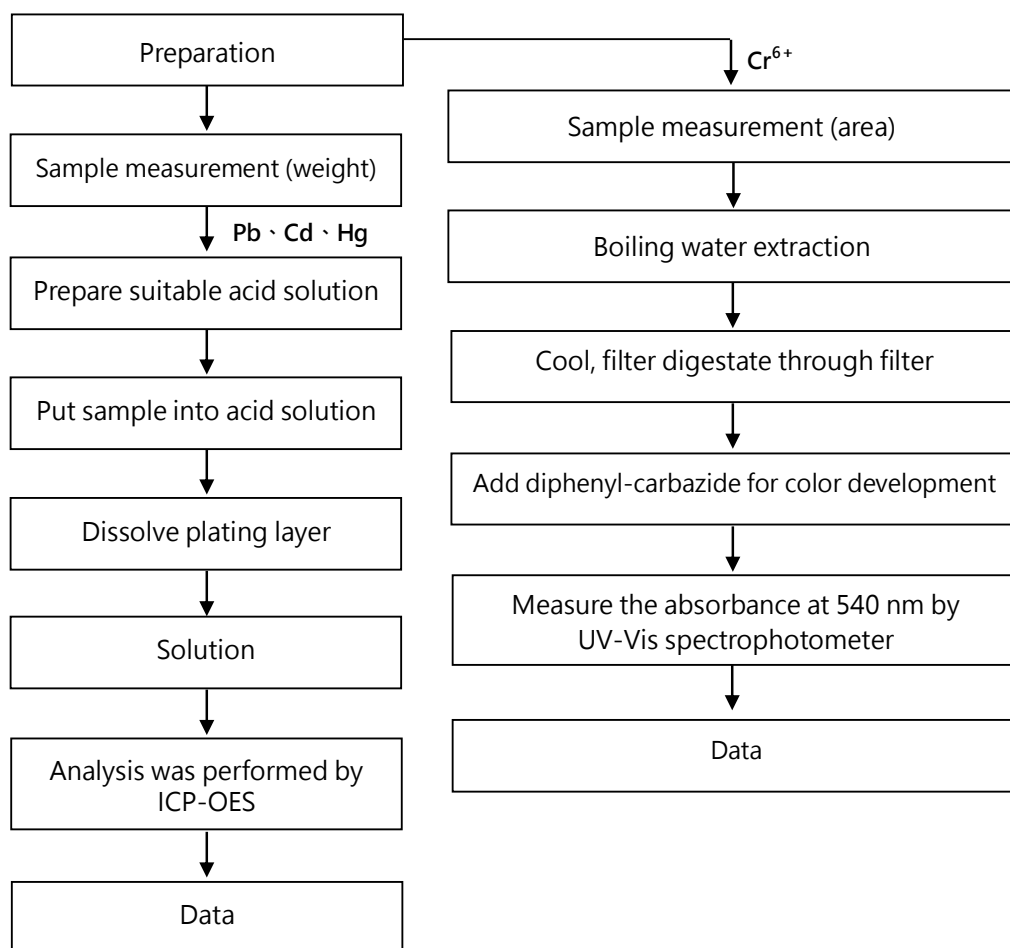
These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr^{6+} test method excluded)

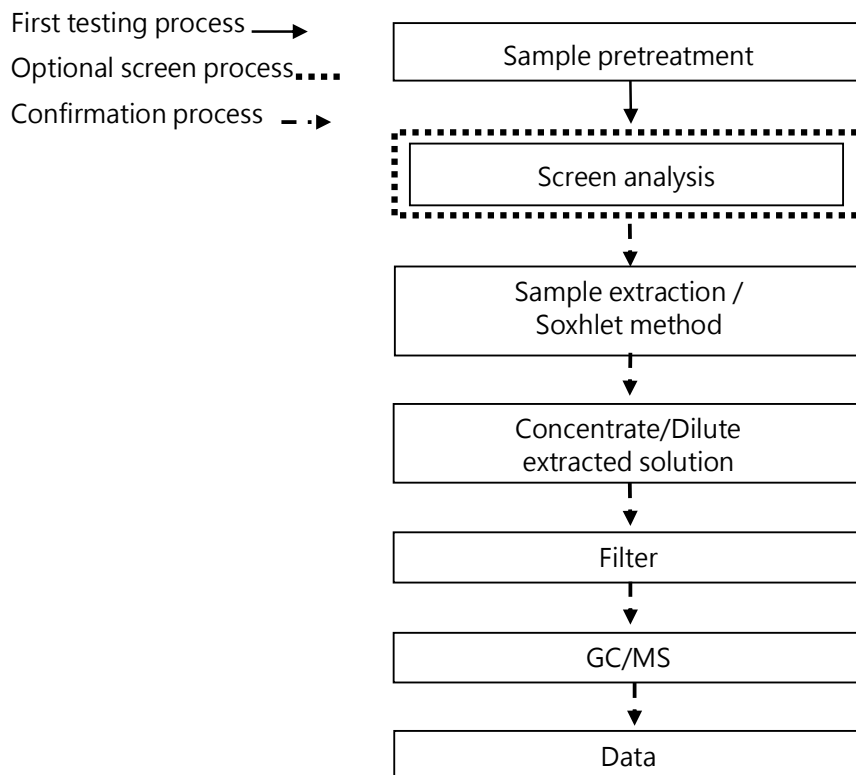


Flow chart of stripping method for metal analysis

The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)



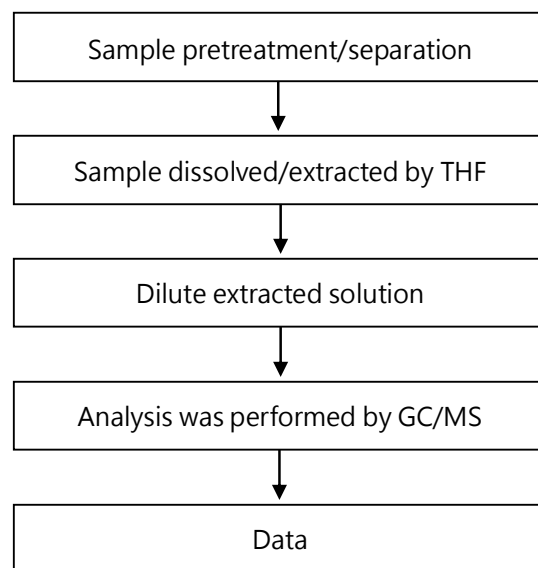
Analytical flow chart – PBBs / PBDEs



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Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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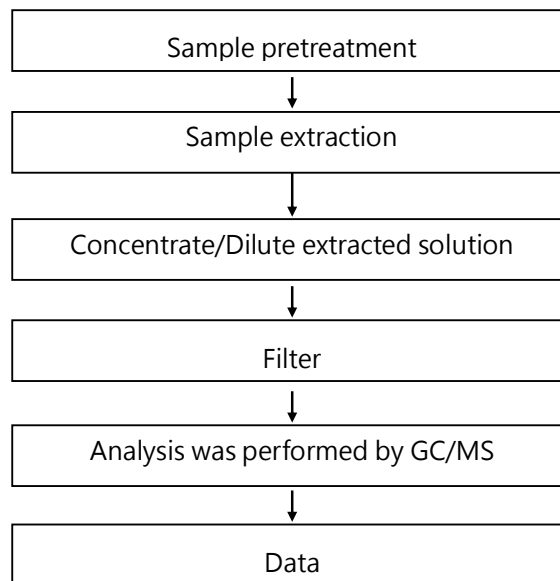
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Analytical flow chart - HBCDD



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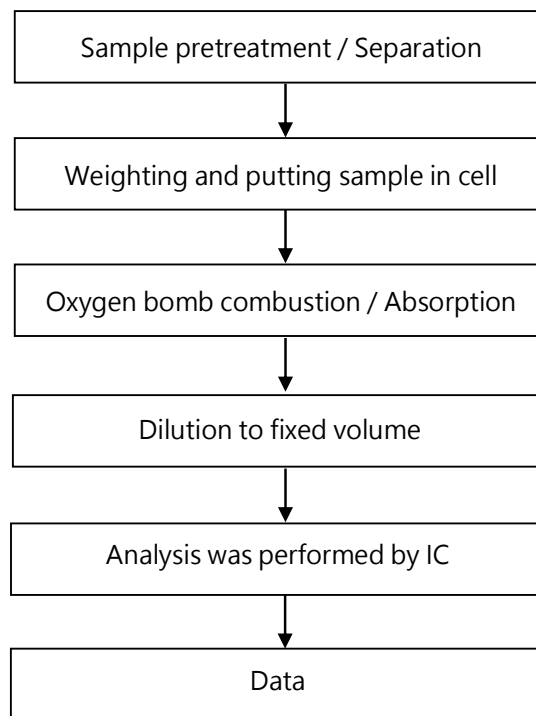
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Analytical flow chart - Halogen



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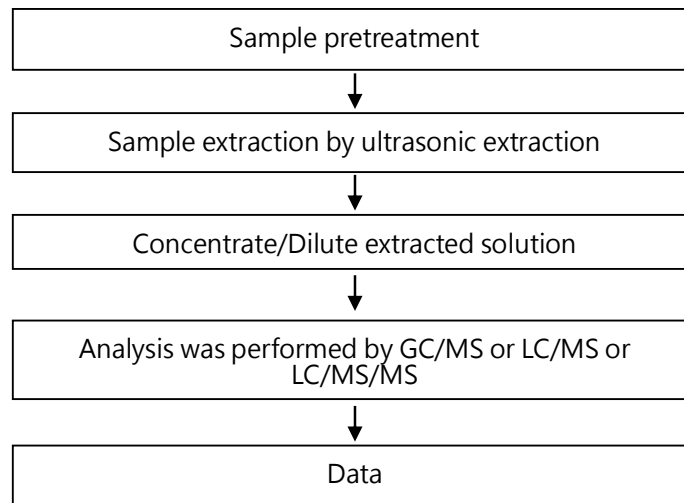
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Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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Test Report

No.: ETR24301408M01

Date: 20-Mar-2024

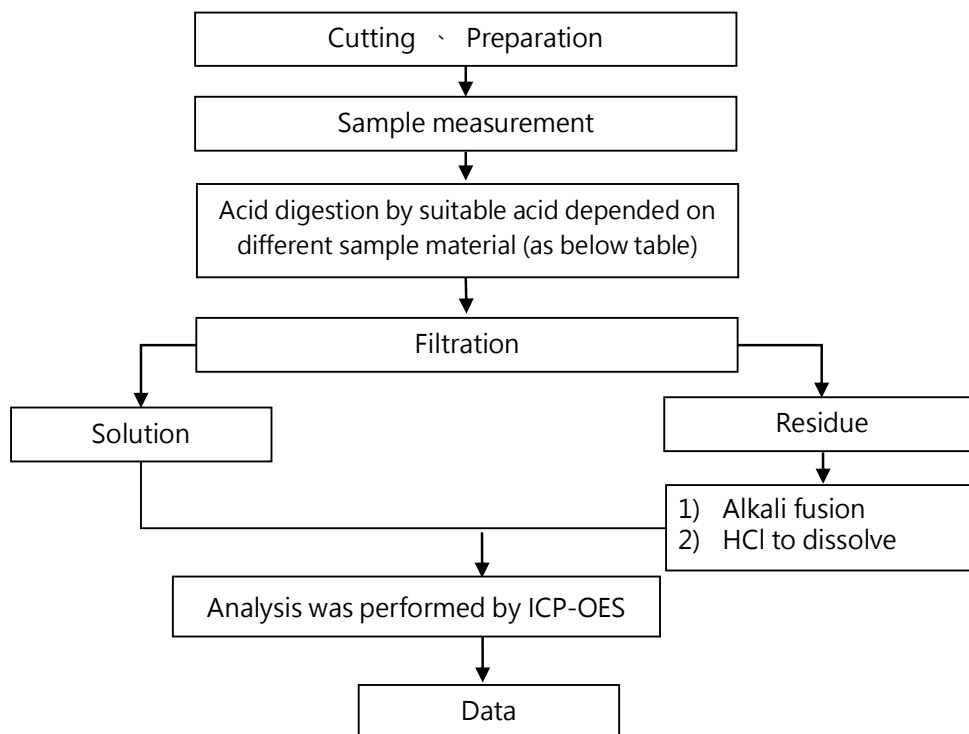
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Flow chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Added appropriate reagent to total digestion

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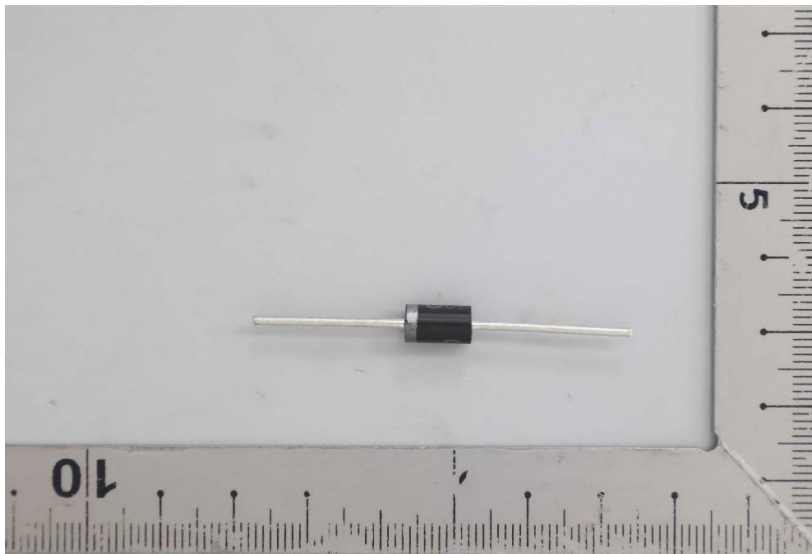
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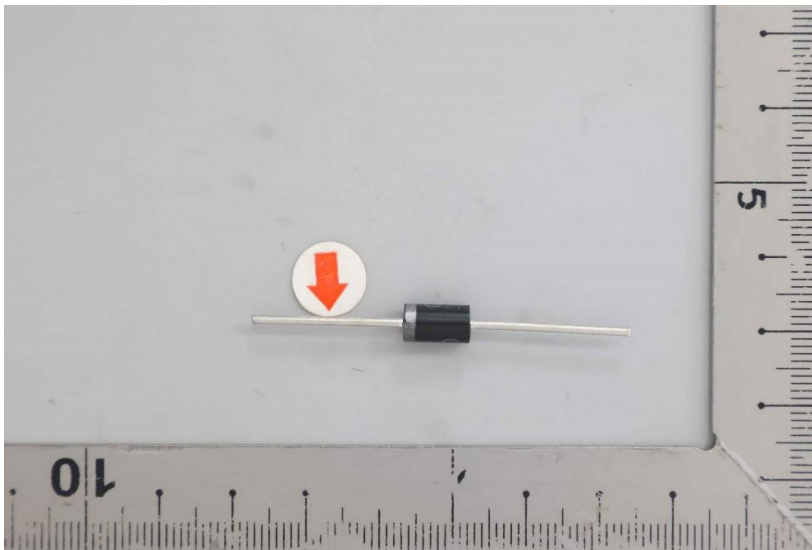
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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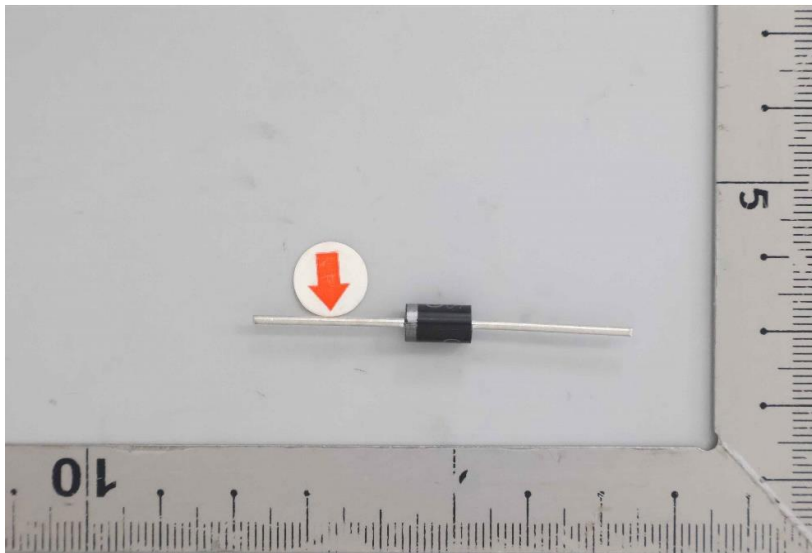
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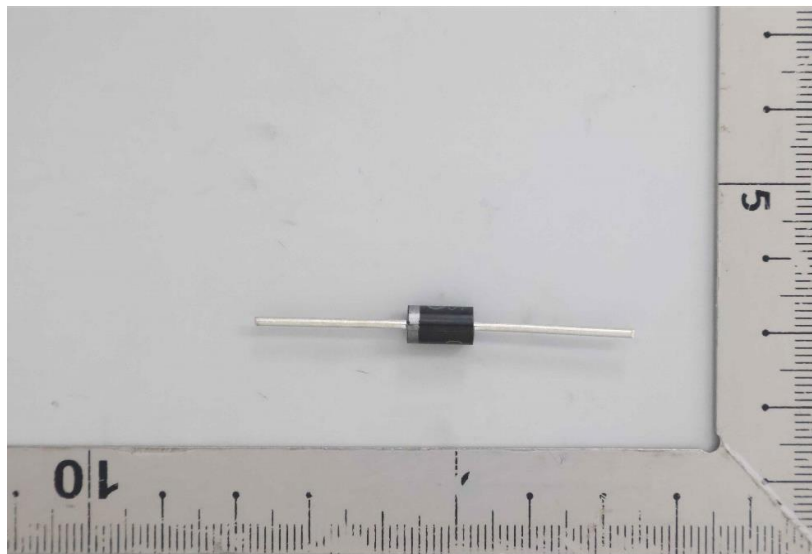
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**** End of Report ****

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